BRAIN RESEARCH

VOL. 722 NOS. 1,2 **CONTENTS** **25 MAY 1996**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Publisher's Note v

Guidelines for the submission of manuscripts vii

Research reports

Characterization of a distinct set of intra-axonal ultrastructural changes associated with traumatically induced alteration in axolemmal permeability
E.H. Pettus and J.T. Povlishock (USA) 1

Acetylcholinesterase inhibitors block acetylcholine-evoked release of dopamine in rat striatum, in vivo
F. Dajas-Bailador, G. Costa, S. Emmett, C. Bonilla and F. Dajas (Uruguay, UK) 12

Reciprocal cross-desensitization of locus coeruleus electrophysiological responsivity to corticotropin-releasing factor and stress
L.H. Conti and S.L. Foote (USA) 19

State-dependent phenomena in cat masseter motoneurons
K.A. Kohlmeier, F. López-Rodríguez, R.-H. Liu, F.R. Morales and M.H. Chase (USA) 30

Changes in dentate granule cell field potentials during afterdischarge initiation triggered by 5 Hz perforant path stimulation
L.J. Burdette, G.J. Hart and L.M. Masukawa (USA) 39

Serotonergic lesioning differentially affects presynaptic and postsynaptic 5-HT_{1B} receptor mRNA levels in rat brain
J.F. Neumaier, P. Szot, E.R. Peskind, D.M. Dorsa and M.W. Hamblin (USA) 50

Mechanism of action of the epileptogenic drug pentylenetetrazol on a cloned neuronal potassium channel
M. Madeja, U. Mußhoff, C. Lorra, O. Pongs and E.-J. Speckmann (Germany) 59

Apolipoprotein E (apoE) levels in brains from Alzheimer disease patients and controls
T. Pirttilä, H. Soininen, O. Heinonen, T. Lehtimäki, N. Bogdanovic, L. Paljärvi, O. Kosunen, B. Winblad, P. Riekkinen Sr., H.M. Wisniewski and P.D. Mehta (USA, Finland, Sweden) 71

No evidence for a diurnal vasoactive intestinal polypeptide (VIP) rhythm in the human suprachiasmatic nucleus
M.A. Hofman, J.-N. Zhou and D.F. Swaab (The Netherlands) 78

Corticosterone promotes increased heme oxygenase-2 protein and transcript expression in the newborn rat brain
M.D. Maines, B.C. Eke and X. Zhao (USA) 83

Spinal cholinergic and monoamine receptors mediate the antinociceptive effect of morphine microinjected in the periaqueductal gray on the rat tail, but not the feet
F. Fang and H.K. Proudfit (USA) 95

NMDA-induced lesions of the nucleus accumbens or the ventral pallidum increase the rewarding efficacy of food to deprived rats
P.I. Johnson, M.A. Parente and J.R. Stellar (USA) 109

The role of amygdala and hypothalamus in $GABA_A$ antagonist bicuculline-induced cardiovascular responses in conscious rats
Z. Gören, N. Aslan, K. Berkman, Ş. Oktay and F. Onat (Turkey) 118

Morphine stimulates nitric oxide release from invertebrate microglia
Y. Liu, D. Shenouda, T.V. Bilfinger, M.L. Stefano, H.I. Magazine and G.B. Stefano (USA, China) 125

Depression by morphine-6-glucuronide of nociceptive activity in rat thalamus neurons: comparison with morphine
I. Jurna, J. Baldauf and W. Fleischer (Germany) 132

Purification and properties of the 26S proteasome from the rat brain: Evidence for its degradation of myelin basic protein in a ubiquitin-dependent manner
T. Akaishi, T. Shiomi, H. Sawada and H. Yokosawa (Japan) 139

Effects of surgical and pharmacological adrenalectomy on the initiation and maintenance of intravenous cocaine self-administration in rats
N.E. Goeders and G.F. Guerin (USA) 145

Interactions of neurotrophic factors GDNF and NT-3, but not BDNF, with the immune system following fetal spinal cord transplantation
M. Shinoda, B.J. Hoffer and L. Olson (Sweden, USA) 153

Sensorimotor gating in rats is regulated by different dopamine–glutamate interactions in the nucleus accumbens core and shell subregions
F.-J. Wan and N.R. Swerdlow (USA) 168

Capsaicin-sensitive afferents mediate chronic cold, but not mechanical, allodynia-like behavior in spinally injured rats
J.-X. Hao, W. Yu, X.-J. Xu and Z. Wiesenfeld-Hallin (Sweden) 177

(contents continued on p. 238)

0006-8993(19960525)722:1/2;1-S

BRAIN RESEARCH

VOL. 722 NOS. 1,2 **CONTENTS** **25 MAY 1996**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Publisher's Note v

Guidelines for the submission of manuscripts vii

Research reports

Characterization of a distinct set of intra-axonal ultrastructural changes associated with traumatically induced alteration in axolemmal permeability
E.H. Pettus and J.T. Povlishock (USA) 1

Acetylcholinesterase inhibitors block acetylcholine-evoked release of dopamine in rat striatum, in vivo
F. Dajas-Bailador, G. Costa, S. Emmett, C. Bonilla and F. Dajas (Uruguay, UK) 12

Reciprocal cross-desensitization of locus coeruleus electrophysiological responsivity to corticotropin-releasing factor and stress
L.H. Conti and S.L. Foote (USA) 19

State-dependent phenomena in cat masseter motoneurons
K.A. Kohlmeier, F. López-Rodríguez, R.-H. Liu, F.R. Morales and M.H. Chase (USA) 30

Changes in dentate granule cell field potentials during afterdischarge initiation triggered by 5 Hz perforant path stimulation
L.J. Burdette, G.J. Hart and L.M. Masukawa (USA) 39

Serotonergic lesioning differentially affects presynaptic and postsynaptic 5-HT_{1B} receptor mRNA levels in rat brain
J.F. Neumaier, P. Szot, E.R. Peskind, D.M. Dorsa and M.W. Hamblin (USA) 50

Mechanism of action of the epileptogenic drug pentylenetetrazol on a cloned neuronal potassium channel
M. Madeja, U. Mußhoff, C. Lorra, O. Pongs and E.-J. Speckmann (Germany) 59

Apolipoprotein E (apoE) levels in brains from Alzheimer disease patients and controls
T. Pirttilä, H. Soininen, O. Heinonen, T. Lehtimäki, N. Bogdanovic, L. Paljärvi, O. Kosunen, B. Winblad, P. Riekkinen Sr., H.M. Wisniewski and P.D. Mehta (USA, Finland, Sweden) 71

No evidence for a diurnal vasoactive intestinal polypeptide (VIP) rhythm in the human suprachiasmatic nucleus
M.A. Hofman, J.-N. Zhou and D.F. Swaab (The Netherlands) 78

Corticosterone promotes increased heme oxygenase-2 protein and transcript expression in the newborn rat brain
M.D. Maines, B.C. Eke and X. Zhao (USA) 83

Spinal cholinergic and monoamine receptors mediate the antinociceptive effect of morphine microinjected in the periaqueductal gray on the rat tail, but not the feet
F. Fang and H.K. Proudfit (USA) 95

NMDA-induced lesions of the nucleus accumbens or the ventral pallidum increase the rewarding efficacy of food to deprived rats
P.I. Johnson, M.A. Parente and J.R. Stellar (USA) 109

The role of amygdala and hypothalamus in $GABA_A$ antagonist bicuculline-induced cardiovascular responses in conscious rats
Z. Gören, N. Aslan, K. Berkman, Ş. Oktay and F. Onat (Turkey) 118

Morphine stimulates nitric oxide release from invertebrate microglia
Y. Liu, D. Shenouda, T.V. Bilfinger, M.L. Stefano, H.I. Magazine and G.B. Stefano (USA, China) 125

Depression by morphine-6-glucuronide of nociceptive activity in rat thalamus neurons: comparison with morphine
I. Jurna, J. Baldauf and W. Fleischer (Germany) 132

Purification and properties of the 26S proteasome from the rat brain: Evidence for its degradation of myelin basic protein in a ubiquitin-dependent manner
T. Akaishi, T. Shiomi, H. Sawada and H. Yokosawa (Japan) 139

Effects of surgical and pharmacological adrenalectomy on the initiation and maintenance of intravenous cocaine self-administration in rats
N.E. Goeders and G.F. Guerin (USA) 145

Interactions of neurotrophic factors GDNF and NT-3, but not BDNF, with the immune system following fetal spinal cord transplantation
M. Shinoda, B.J. Hoffer and L. Olson (Sweden, USA) 153

Sensorimotor gating in rats is regulated by different dopamine–glutamate interactions in the nucleus accumbens core and shell subregions
F.-J. Wan and N.R. Swerdlow (USA) 168

Capsaicin-sensitive afferents mediate chronic cold, but not mechanical, allodynia-like behavior in spinally injured rats
J.-X. Hao, W. Yu, X.-J. Xu and Z. Wiesenfeld-Hallin (Sweden) 177

(contents continued on p. 238)

0006-8993(19960525)722:1/2;1-S

(contents continued)

Short communications

Dopamine produced from L-DOPA is degraded by endogenous monoamine oxidase in neurons of the dorsal raphe nucleus of the rat: an immunohistochemical study
R. Arai, N. Karasawa and I. Nagatsu (Japan) 181

$GABA_A$ receptor α_1-subunit-immunopositive neurons in the rat striatum
H.J. Caruncho, I. Liste and J.L. Labandeira-García (Spain) 185

$5\text{-}HT_{1A}$ receptor expression is modulated by corticosteroid receptor agonists in primary rat hippocampal culture
M. Nishi and E.C. Azmitia (USA) 190

The effect of long-term post-ischemic bifemelane hydrochloride treatment on cholinergic systems in the gerbil hippocampus
Y.-L. Huang, H. Onodera, A. Takeda, Y. Itoyama and K. Kogure (Japan) 195

Spinal antinociceptive effect of substance P on the responses induced by intrathecally injected NMDA in mice
T. Masuyama, T. Shimizu, T. Iwashita, N. Yoshimura and T. Fukuda (Japan) 200

Determinants of the stimulatory opioid effect on intracellular calcium in SK-N-SH and NG108-15 neuroblastoma
Y. Sarne and M. Gafni (Israel) 203

Immunohistochemical presence of 5α-reductase rat type 1-containing cells in the rat brain
Y. Tsuruo, T. Miyamoto, H. Yokoi, K. Kitagawa, S. Futaki and K. Ishimura (Japan) 207

Inhibitory effects of diltiazem, an L-type Ca^{2+} channel blocker, on naloxone-increased glutamate levels in the locus coeruleus of opioid-dependent rats
S. Tokuyama and I.K. Ho (USA) 212

Low-frequency stimulation does not readily cause long-term depression or depotentiation in the dentate gyrus of awake rats
W.C. Abraham, S.E. Mason-Parker and B. Logan (New Zealand) 217

Soybean agglutinin binding by primary olfactory and primary accessory olfactory projections in different frogs
D.L. Meyer, A.G. Jadhao and E. Kicliter (Germany, USA) 222

Signalled versus unsignalled intravenous amphetamine: large differences in the acute psychomotor response and sensitization
H.S. Crombag, A. Badiani and T.E. Robinson (USA) 227

Norepinephrine transmitter metabolite is a selective cell death messenger in differentiated rat pheochromocytoma cells
W.J. Burke, C.A. Schmitt, K.N. Gillespie and S.W. Li (USA) 232

Author Index 236